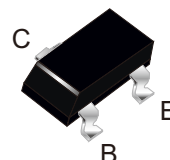


FEATURES

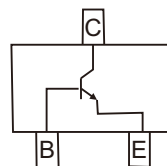
- Epoxy meets UL-94 V-0 flammability rating
- Complementary to MMST5401
- Power dissipation of 200mW
- High stability and high Reliability

SOT-323



MECHANICAL DATA

- Case:SOT-323
- Terminals:Plated solderable per MIL-STD-750,method 2026
- Mounting Position: Any
- Marking:K4N



MAXIMUM RATINGS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CEO}	V	160
Collector-Base Voltage	V_{CBO}	V	180
Emitter-Base Voltage	V_{EBO}	V	6
Collector Current, Continuous	I_C	mA	600
Collector Power Dissipation	P_D	mW	200
Operation Junction Temperature	T_J	$^{\circ}\text{C}$	-55 to +150
Storage Temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +150
Thermal resistance From junction to ambient	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	625

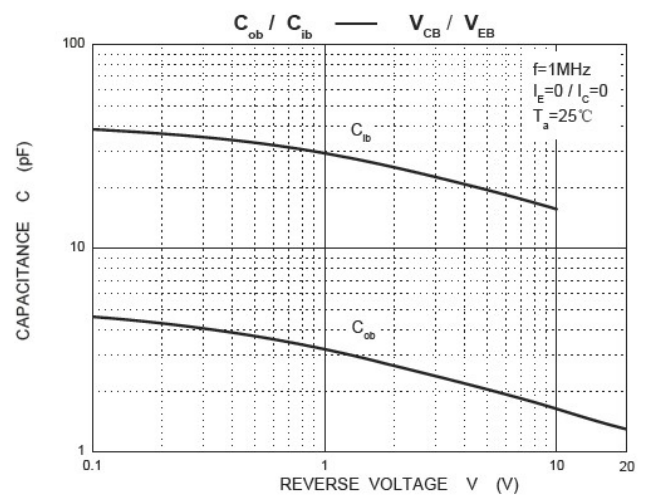
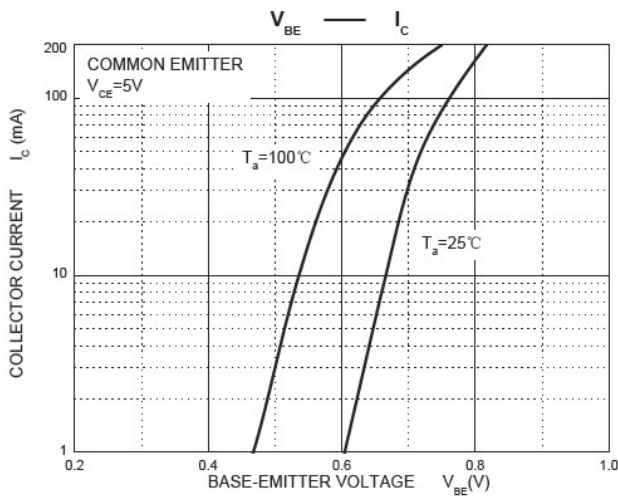
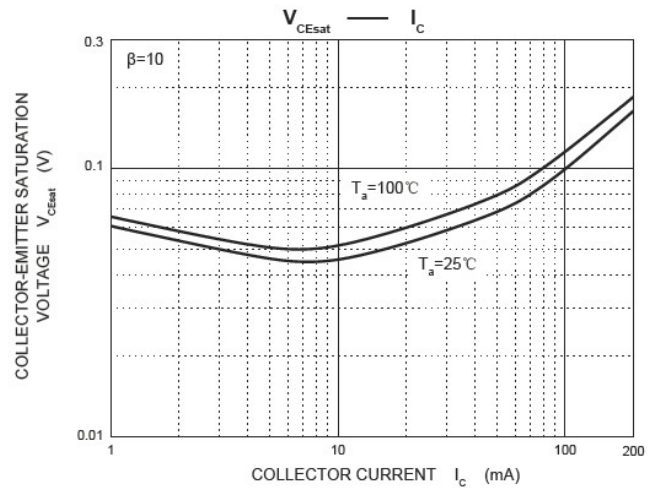
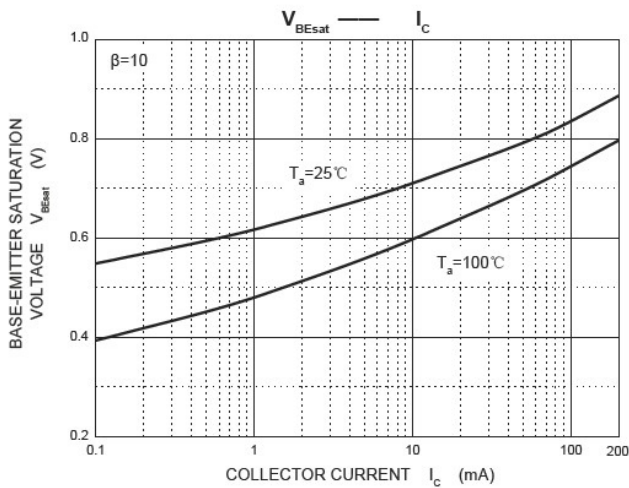
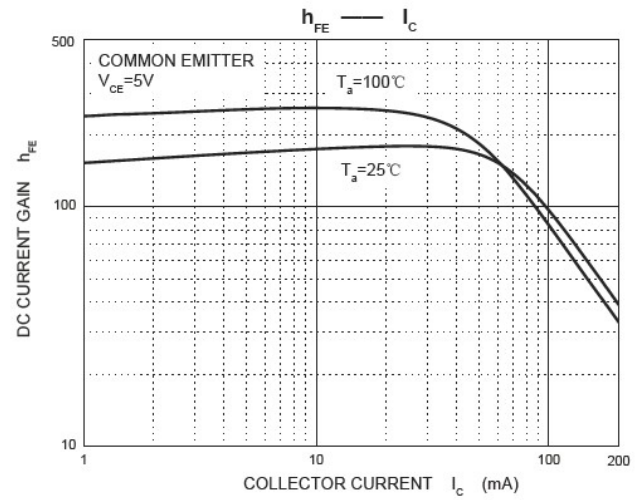
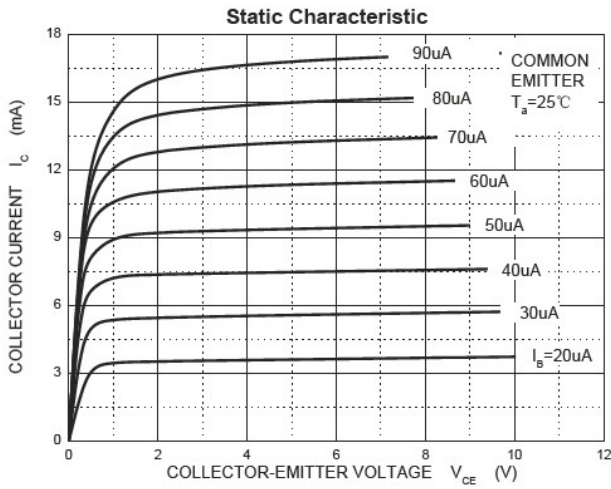
MMST5551

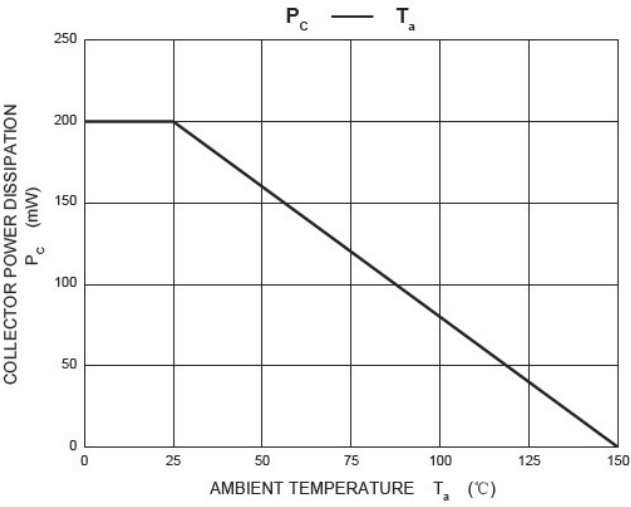
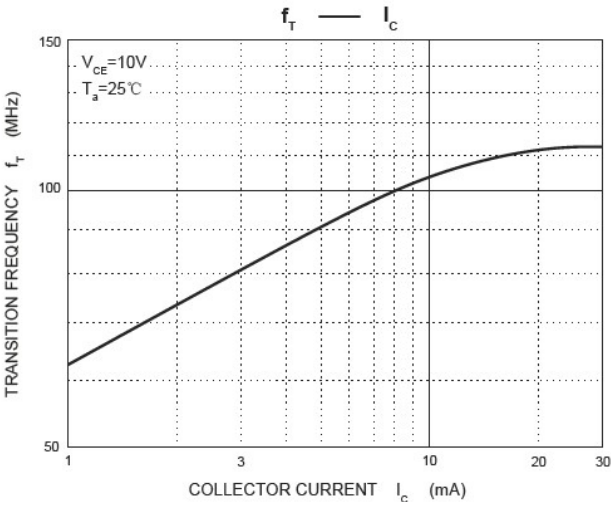
ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	V	$I_C = 1.0\text{mA}, I_B = 0$	160	---
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	V	$I_C = 100\mu\text{A}, I_E = 0$	180	---
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	V	$I_E = 10\mu\text{A}, I_C = 0$	6	---
Collector cut-off Current	I_{CBO}	nA	$V_{CB} = 120\text{V}, I_E = 0$	---	50
Emitter cut-off Current	I_{EBO}	nA	$V_{EB} = 4\text{V}, I_C = 0$	---	50
DC Current Gain	$h_{FE(1)}$		$I_C = 1\text{mA}, V_{CE} = 5\text{V}$	80	---
	$h_{FE(2)}$		$I_C = 10\text{mA}, V_{CE} = 5\text{V}$	100	300
	$h_{FE(3)}$		$I_C = 50\text{mA}, V_{CE} = 5\text{V}$	30	---
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	$I_C = 10\text{mA}, I_B = 1\text{mA}$	---	0.15
			$I_C = 50\text{mA}, I_B = 5\text{mA}$	---	0.20
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	$I_C = 10\text{mA}, I_B = 1\text{mA}$	---	1.00
			$I_C = 50\text{mA}, I_B = 5\text{mA}$	---	1.00
Output Capacitance	C_{ob}	pF	$V_{CB} = 10\text{V}, f = 1.0\text{MHz}, I_E = 0$	---	6
Transition frequency	f_T	MHz	$I_C = 10\text{mA}, V_{CE} = 10\text{V}$ $f = 100\text{MHz}$	100	300

Pulse test:pulse width $\leq 300\mu\text{s}$,duty cycle $\leq 2.0\%$

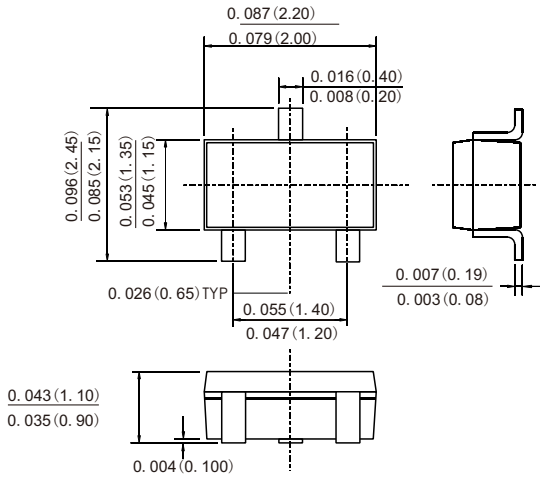
Characteristics(Typical)





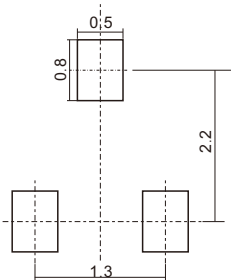
Outline Dimensions

SOT-323



Dimensions in inches and (millimeters)

Suggested pad layout



Dimensions in millimeters

Friendship Reminder

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